PHILIPS

FW 850C Mini HiFi System
FW 855C
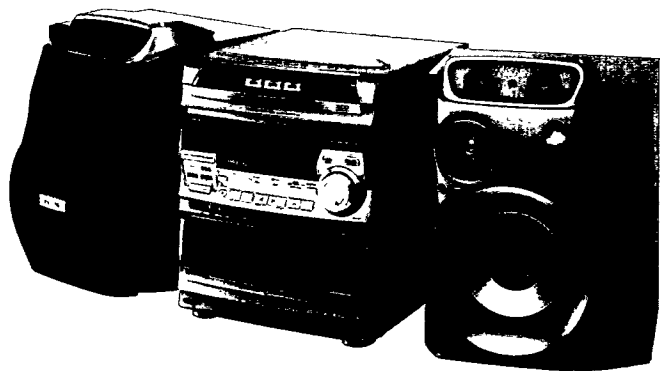
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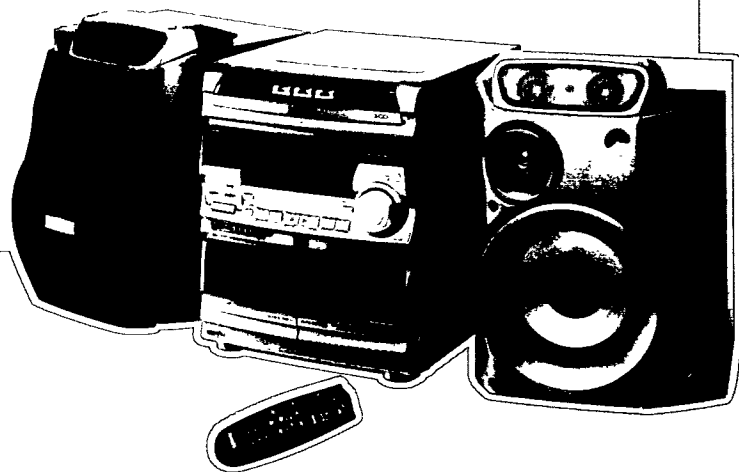
Instructions for use
Mode d'emploi
Instrucciones de manejo
使用説明書

PHILIPS

FW 850C

FW 855C
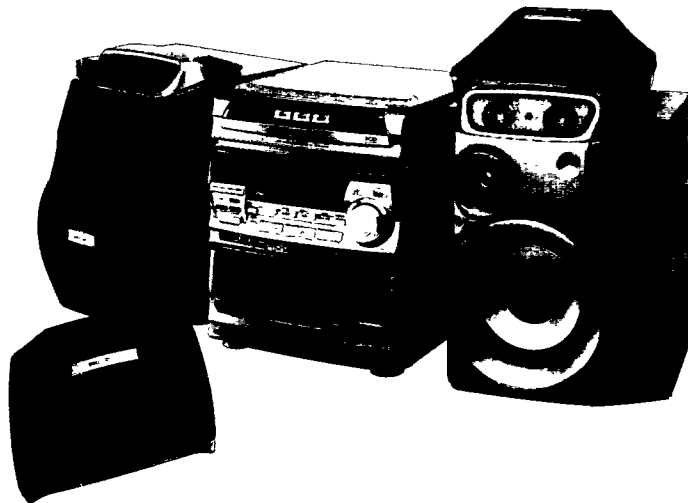
México   NOM

Es necesario que lea cuidadosamente su instructivo de manejo.

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┌─────────────────────────────────────────────┐
│        PRECAUCION - ADVERTENCIA               │
│  ⚡   NO ABRIR, RIESGO DE CHOQUE ELECTRICO  ⚠ │
│           ATENCION                            │
│      VERIFIQUE QUE EL VOLTAJE DE ALIMENTACION │
│         SEA EL REQUERIDO PARA SU APARATO      │
│   PARA EVITAR EL RIESGO DE CHOQUE ELECTRICO, NO QUITE LA TAPA; │
│ EN CASO DE REQUERIR SERVICIO, DIRIJASE AL PERSONAL AUTORIZADO DE PHILIPS. │
└─────────────────────────────────────────────┘
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NOM

CLASS 1 LASER PRODUCT

CONTENTS

General Information

- *The type plate (which contains the serial number) is located at the rear of the system.*
- *Recording is permissible if copyright or other rights of third parties are not infringed.*

Environmental Information

All unnecessary packaging material has been omitted. We have done our utmost to make the packaging easily separable into three mono-materials: cardboard (box), polystyrene foam (buffer) and polythene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Acknowledgement

□□ DOLBY B NR

The Dolby B NR System and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories Licensing Corporation.

Accessories *(Supplied)*

- Remote control
- Batteries (2 x AAA size) for remote control
- AM loop antenna
- FM antenna wire
- AC power cord
- 1 pair of surround speakers SS50 *(for model FW855 only)*

Safety Information

- Before operating the system, check that the operating voltage indicated on the type plate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The type plate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
- The system incorporates a built-in safety feature that prevents overheating.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the unit yourself, as this will invalidate the warranty!
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the unit until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- **To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

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Rear Connections
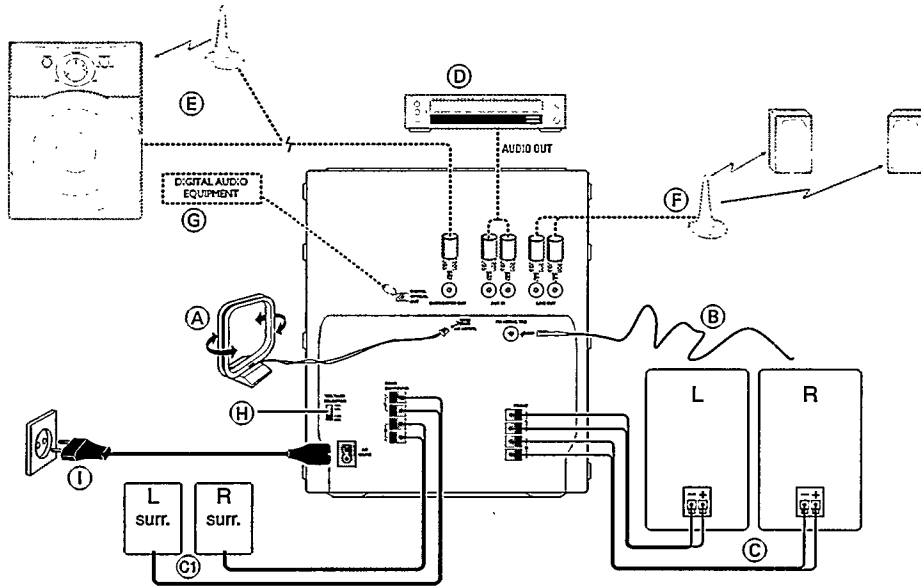
Ⓐ AM Antenna Connection

Connect the supplied loop antenna to the AM AERIAL terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.

Ⓑ FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

For better FM stereo reception connect an outdoor FM antenna to the FM AERIAL 75 Ω terminal using a 75 Ω coaxial wire.

Ⓒ Speakers Connections

- Connect the right speaker to Front terminal R, with the red wire to $+$ and the black wire to $-$.
- Connect the left speaker to Front terminal L, with the red wire to $+$ and the black wire to $-$.
- Clip the stripped portion of the speaker wire as shown.

Ⓒ1 Surround Speakers Connection
(for FW855C only)

4-Speakers Connection
- *Front speakers :* Connect the black wires to the black FRONT terminals and the red wires to the red FRONT terminals.
- *Rear (surround) speakers :* Connect the black or non-marked wires to the black REAR terminals and the white or marked wires to the grey REAR terminals.

Positioning the Speakers

To get the best surround sound effect, place the speakers as follow.
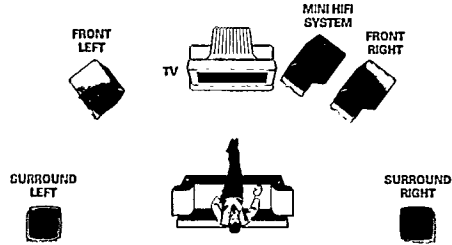
Front Left and Right Speakers

For best listening effect, it is recommended to have the Left and Right speakers to form an angle of approximately 45 degrees to the listener. The speakers are magnetic shielded. Should the magnetic field from the speakers affect the picture of the television, you should increase the separation distance.

Rear (surround) Speakers

The surround speaker should be placed at normal listening ear level. It can also be mounted on the wall at the back of the room. Most important , sometimes you need to experiment creatively when placing the surround speakers in order to obtain the most ideal sound projection.

(D) Connecting other equipment to your system

You can connect the audio left and right OUT terminals of a TV, VCR, Laser Disc or DVD player to the AUX IN terminals at the rear of the system.

(E) Subwoofer Out Connection

You can connect either an optional active subwoofer or an optional wireless active subwoofer to the SUBWOOFER OUT terminal. The wireless system uses a radio frequency transmitter. The subwoofer reproduces just the low bass effect (e.g. explosions, the rumble of the spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer unit.

(F) Line Out *(wireless ready)*

You may install additional front active speakers away from the system (e.g. in another room) to reduce the inconvenience of running long speaker wires across rooms. You can place as many remote speakers as you like provided that they operate at the same radio frequency. Connect the wireless radio frequency transmitter to the LINE OUT terminals. Place the active speakers at your preferred location. Be sure to follow the instructions supplied with the active speakers.

(G) Digital Optical Out

You can record the digital sound from the CD, through this output, on any audio equipment with digital input (e.g. digital amplifier, Digital Audio Tape (DAT) deck, Digital to Analog Converter and Digital Signal Processor). Connect one end of the optical cable (not supplied) to the DIGITAL OPTICAL OUT socket and the other end to the audio equipment with digital input. When the DIGITAL OPTICAL OUT socket is not used, be sure to cover the socket with the supplied dust cap.

(H) Adjusting the Operating Voltage
*(not available for version /30)*

Before connecting the AC power cord to the wall outlet, make sure that the voltage selector at the rear of the system is set to the local power line voltage. If not, reset the selector before connecting to the wall outlet.

(I) AC Power Supply

After all other connections have been made, connect the AC power cord to the system and to the wall outlet.
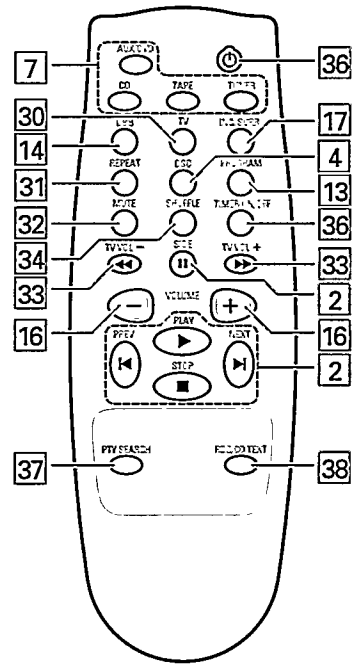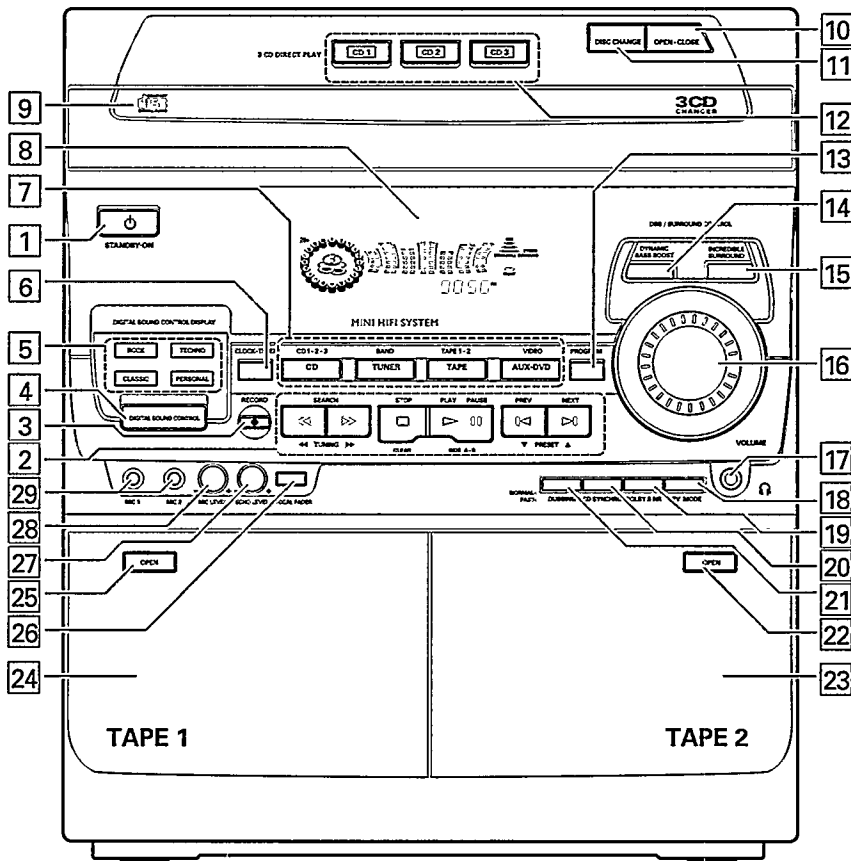
Controls on the system and remote control

[1] STANDBY-ON
- to switch the system on or to standby mode.

[2] MODE SELECTION

SEARCH ◄◄ ►► (TUNING ◄◄ ►►)
for CD .... to search backward/forward.
for TUNER ..... to tune to a lower or higher radio frequency.
for TAPE .... to rewind or fast forward the tape.

STOP ■ (CLEAR)
for CD .... to stop CD playback or clear a program.
for TUNER ..... to stop programming.
for TAPE .... to stop playback or recording.

PLAY PAUSE ► II (SIDE A•B)
for CD .... to start or interrupt playback.
for TAPE .... to start playback. When playing in tape 2 mode; to change side.

PREV I◄ / NEXT ►I (PRESET ▲ ▼)
for CD .... to skip to the beginning of the current or previous/next track.
for TUNER ..... to select a preset radio station in memory.

[3] RECORD
- to start recording on tape deck 2.

[4] DIGITAL SOUND CONTROL (DSC)
- to select the desired sound effect : OPTIMAL, CLASSIC, ROCK, TECHNO, PERSONAL 1, PERSONAL 2 or PERSONAL 3.

[5] DIGITAL SOUND CONTROL DISPLAY PANEL
- to view the selected DSC setting.

[6] CLOCK•TIMER
- to view clock, set clock or timer.

[7] SOURCE : to select the following.

CD / (CD 1•2•3)
- to select CD mode. When CD in stop mode; to select the disc tray 1, 2 or 3.

TUNER / (BAND)
- to select Tuner mode. When in tuner mode; to select the waveband FM or MW.

TAPE / (TAPE 1•2)
- to select Tape mode. When tape in stop mode; to select either tape deck 1 or 2.

AUX•DVD / (VIDEO)
- to select external source (e.g. DVD, TV, Laser Disc or VCR sound).

[8] DISPLAY
- to view the current setting of the system.

[9] CD CAROUSEL TRAY

[10] OPEN•CLOSE
- to open or close the CD carousel tray.

[11] DISC CHANGE
- to change CD(s).

[12] 3 CD DIRECT PLAY
- to select a CD tray for playback.

[13] PROGRAM
- to program CD track in CD mode or preset radio stations in tuner mode.

[14] DYNAMIC BASS BOOST (DBB)
- to switch on bass boost to enhance bass response or to switch off bass boost.

[15] INCREDIBLE SURROUND
- to switch on or off the surround sound effect.

[16] VOLUME
- to adjust the volume level.

[17] ∩
- to connect headphones jack.

[18] REVERSE MODE
- to select the different play mode on tape deck 2 only.

[19] DOLBY B NR
- to switch on or off the Dolby B NR mode.

[20] CD SYNCHRO
- to synchronise the CD recording on a tape.

[21] DUBBING
- to dub a tape in normal or high speed mode.

[22] OPEN
- to open tape deck 2.

[23] TAPE DECK 2

[24] TAPE DECK 1

[25] OPEN
- to open tape deck 1.

[26] VOCAL FADER *(not available for version /30)*
- to fade out the vocal of the original song

[27] ECHO LEVEL *(not available for version /30)*
- to adjust the echo level for karaoke or microphone recording.

[28] MIC LEVEL *(not available for version /30)*
- to adjust the mixing level for karaoke or microphone recording.

[29] MIC 1 and 2 *(not available for version /30)*
- to connect microphones jack.

[30] TV *(only on the remote control)*
- to select TV mode.

[31] REPEAT
- to repeat a CD track.

[32] MUTE
- to switch off the sound temporarily or to switch on again.

33 **TV VOLUME +/−**   *(RC5 code only)*
− to adjust the volume of the television.

34 **SHUFFLE**
− to play all the available discs and their tracks in random order.

35 **TIMER ON/OFF**
− to switch on or off timer.

36 ⏻
− to switch the system to standby mode.

37 **PTY SEARCH** − *not functional for this model.*

38 **CD TEXT** − *not functional for this model.*

Notes for remote control:
− *First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. CD, TUNER, TAPE, AUX/DVD or TV).*
− *Then select the desired function (PLAY, NEXT, etc.).*

Inserting batteries into the Remote Control

- Insert the batteries (Type R03, UM4 or AAA) into the remote control as shown in the battery compartment.

- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement, use type R03, UM4 or AAA batteries.
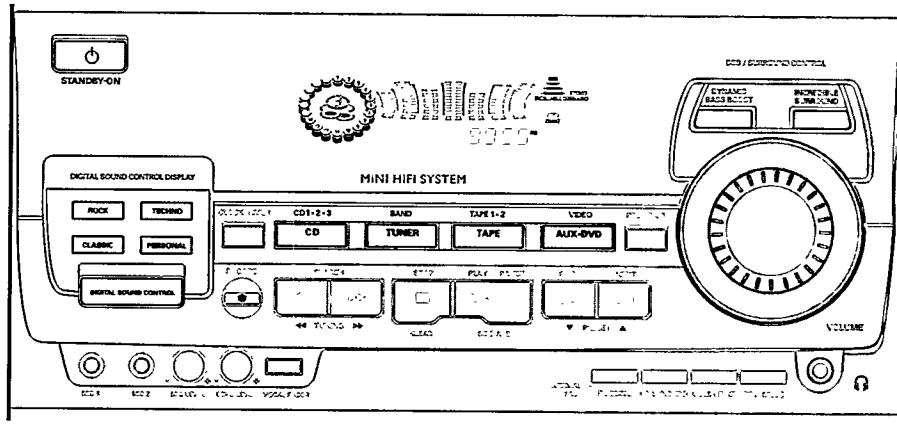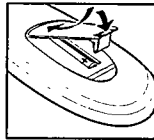
Important:
Before you begin operating the system, complete the preparation procedures.

Demonstration mode

The system has a demonstration mode that shows the various features offered by the system. *Whenever the system is switched on from the wall socket, the demonstration mode will start automatically.*

Note:
− *During demonstration mode, if you press any source (or standby-on) button, the system will switch to the respective (or standby) mode.*
− *When the system is switched to standby mode, 5 seconds later, the demonstration mode will begin again.*

To cancel demonstration mode
- Press and hold **STOP** ■ *(on the system only)* for *3 seconds* to stop the demonstration.
  → The demonstration mode will be switched off permanently.
  → The system will switch to standby mode.

Switching the system ON

- Press **STANDBY•ON** *(on the system only)*, **CD, TUNER, TAPE** or **AUX•DVD**.

You can also switch on the system by pressing any one of the 3 CD DIRECT PLAY buttons.

Switching the system to standby mode

- Press **STANDBY•ON** again.
  - → The system will switch to standby mode.

Selecting the Source

- Press the respective source selection button: **CD, TUNER, TAPE** or **AUX•DVD**.
  - → The display indicates the selected source.

Note:
- *For an external source, make sure that you have connected the audio left and right OUT terminals of the external equipment (TV, VCR, Laser Disc or DVD player) to the AUX IN terminals.*

Sound Control

Volume Adjustment
Rotate **VOLUME** right or left to increase or decrease the sound level.

For Personal Listening
Connect the headphones plug to the 🎧 socket at the front of the system. The speakers will be muted.

Incredible Surround
Normal stereo sound is determined by the distance between the front speakers. When Incredible Surround is switched on, it magnifies the virtual distance between the front speakers for an incredibly wide, enveloping, stereo effect.

- Press **INCREDIBLE SURROUND** to switch on.
  - → The INCREDIBLE SURROUND button lights up.
  - → *"INCREDIBLE SURROUND"* will be displayed.

To switch off Incredible Surround
- Press **INCREDIBLE SURROUND** again.
  - → The INCREDIBLE SURROUND button light is switched off.
  - → *"IS OFF"* will be displayed.

Digital Sound Control (DSC)
The DSC feature enables you to enjoy special sound effects that have preset equalizer settings, providing the best music reproduction.

- Press **DIGITAL SOUND CONTROL (DSC)** to select OPTIMAL, CLASSIC, ROCK, TECHNO or PERSONAL (1, 2, 3).
  - → The Digital Sound Control display panel will light up respectively. At OPTIMAL setting, the DSC display panel does not light up.
  - → *"OPTIMAL, CLASSIC, ROCK, TECHNO, PERSONAL 1, PERSONAL 2* or *PERSONAL 3"* will be displayed.

Personal Setting allows you to store up to 3 preferred settings for bass and treble.

To set personal setting

1 Select Personal 1, 2, or 3.
2 Press and hold **DSC** button for 3 seconds.
  - → The personal setting mode is switched on.
  - → *"ADJUST BASS AND TREBLE"* will be displayed.
3 Press ◄◄ or ►► to adjust the bass.
  - → *"BASS +XX or -XX"* will be displayed.

4 Press ◄◄ or ►►◄ to adjust the treble.
  - → *"TREBLE +XX or -XX"* will be displayed.
5 Press **DSC** again to confirm.

Note:
- *"XX" denotes the sound level.*

Automatic DSC-DBB selection
The best setting for the DBB is automatically generated for the respective DSC selection. You can also manually select the DBB setting that best suits your listening environment.

DSC Selection	DBB Selection
Optimal ◄──────	Punch
Classic ◄──────	Beat
Rock ◄──────	Blast
Techno ◄──────	Blast

Dynamic Bass Boost (DBB)
There are 3 settings for the DBB mode to enhance the bass response.

- Press **DBB** briefly to select the various level of bass boost.
  - → The DBB button lights up.
  - → *"BEAT, PUNCH or BLAST"* will be displayed.

DBB	DBB	DBB	DBB
DBB OFF	BEAT	PUNCH	BLAST

To switch off DBB
- Press **DBB** briefly until the DBB button light is switched off.
 - → *"DBB OFF"* will be displayed.

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English

Note:
- *Some CDs or tapes might be recorded in high modulation. It may cause a distortion at high volume. Should this occur, it is advisable to switch off Incredible Surround, select a lower DBB level or reduce the volume.*

Mute *(only on remote control)*
This feature allows you to temporarily switch off the sound of the system without switching off the system when you require a moment of silence.

- Press **MUTE** on the remote control to switch off the sound.
  → "ᴍᴜᴛᴇ" will be displayed.
- Press **MUTE** again on the remote control or increase the **VOLUME** level to switch on the sound.
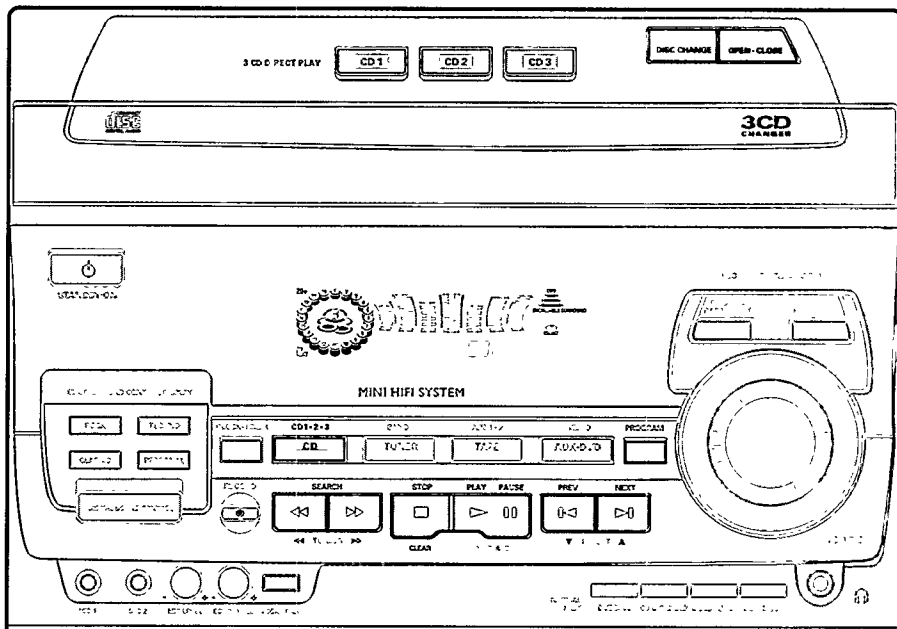
Warning!
1) **This system is designed for conventional CDs. Do not use any accessories like disc stabilizer rings or CD treatment sheets, etc., which may damage the CD mechanism.**
2) **Do not load more than one disc into each tray.**
3) **When the CD changer is loaded with CD(s), do not turn over or shake the system. This may jam the changer mechanism.**

You can load up to three discs in the CD changer for continuous playback without interruption.

Loading the CD Changer

1 Press **CD** to select CD mode.
2 Press **OPEN•CLOSE**.
   → The CD compartment slides out.
3 Load a CD with the printed side up in the right tray.
• You can load another disc in the left tray.
○ To load the third disc, press the **DISC CHANGE** button.
   → The CD changer carousel will rotate until the empty tray is at the right hand side and is ready for loading.
   → Playback will always start with the disc in the outer right disc tray.
4 Press **OPEN•CLOSE** to close the CD compartment.
   → The total number of tracks and playing time of the last selected disc appear on the display.

3 CD Direct Play

You can play a CD directly by pressing the **3 CD DIRECT PLAY (1 - 3)** buttons. The CD player will stop at the end of playback of the selected disc.

– When the button is green, it indicates that there is no disc loaded in the disc tray.
– When the button is red, it indicates that there is a disc loaded in the disc tray.

Playing a CD

1 Press **PLAY ►** to start playback.
   → The disc tray, track number and elapsed playing time of the current track appear on the display.
   → The current track number will also be flashing on the circular music calendar.
   → When a track has been played, the track number will be erased from the circular music calendar.
• To interrupt playback, press **PAUSE ▮▮**.
   → The playing time flashes.
• To resume playback, press **PLAY ►** again.
2 To stop playback, press **STOP ■**.

Note:
– *All the available discs will be played once, then stop. When the CD has stopped playing, the system will switch to the standby mode after 15 minutes if no button is pressed.*

Disc Change

You can change the outer 2 discs while the third inner disc is at the stop or playing mode.

1 Press **DISC CHANGE**.
   → The CD compartment slides out.
2 Replace the discs in the left and right disc trays.
• If you press **DISC CHANGE** again during playback, the CD will stop playing.
   → The CD carousel will rotate until the inner tray is at the right hand side and is ready for changing.
3 Press **OPEN•CLOSE** to close the CD compartment.

Selecting a desired track

Selecting a desired track at the stop mode
1 Press **PREV I◄** or **NEXT ►I** until the desired track appears on the display.
2 Press **PLAY ►** to start playback.
   → The selected track number and elapsed playing time appear on the display.

Selecting a desired track during playback
1 Press **PREV I◄** or **NEXT ►I** until the desired track appears on the display.
   → The selected track number and elapsed playing time appear on the display.
• If you press **PREV I◄** once it will skip to the beginning of the current track and play the track again.

Searching for a particular passage during playback

• Press and hold **◄◄** or **►►** until the desired passage is located.
   → The volume will be reduced.
• Play returns to normal when **◄◄** or **►►** is released.

Programming Tracks

Programming tracks of a loaded CD is only possible in the stop mode. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

1 Load the desired discs in the disc trays.
2 Press **PROGRAM** to start programming.
   → The PROGRAM flag starts flashing.
3 Press the **CD (CD 1•2•3)** button to select the disc.
4 Press **PREV** I◀ or **NEXT** ▶I to select the desired track.
5 Press **PROGRAM** to store the track.
● Repeat steps *3* to *5* to store other discs and tracks.
6 Press **STOP** ■ once to end programming mode.
   → The total number of tracks programmed and total playing time appear on the display.

Notes:
– *If the total playing time is more than "99:59" or if one of the programmed tracks has a number greater than 30, then "- - : - - " appears in the display instead of the total playing time.*
– *During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.*

Playing the program

1 Press **PLAY** ▶ to start program playback.
   → "PLAY PROGRAM" appears on the display.
   → The track number and elapsed playing time of the current track will appear on the display.
● If you press **REPEAT** during program playback, the current track will be played repeatedly.
   → The REPEAT and PROGRAM flags will be displayed.
2 Press **STOP** ■ to stop program playback.

Note:
– *If you press any of the 3 CD DIRECT PLAY buttons, the system will play the selected disc or track and the stored program will be ignored temporarily. The PROGRAM flag will also temporary disappear from the display and then reappear, when the playback for the selected disc ends.*

Reviewing the program

Reviewing of the program is only possible in the stop mode.
● Press **PREV** I◀ or **NEXT** ▶I repeatedly to review the programmed tracks.
● Press **STOP** ■ to exit review mode.

Erasing the program *(in the stop mode)*

● Press **CLEAR** on the system.
   → "PROGRAM CLEARED" will be displayed.

Note:
– *The program is also erased when the system is disconnected from the power supply. If the CD carousel is opened, the tracks belonging to the outer two trays will be erased and the display will show "CLEARED".*

Shuffle *(only on remote control)*

It will play all the available discs and their tracks in random order. Shuffle can also be used when tracks are programmed.
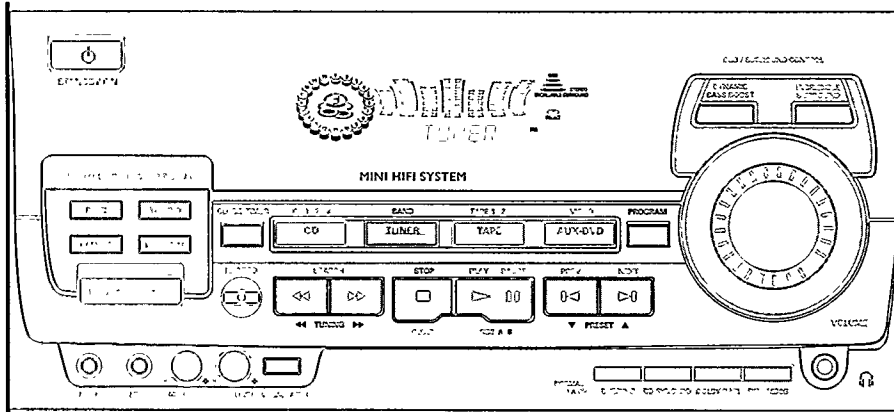
To shuffle all the discs and tracks
1 Press **SHUFFLE**.
   → "SHUFFLE" will be displayed.
   → The SHUFFLE flag, the disc and the track selected at random appear on the display.
● The discs and the tracks will now be played in random order until you press **STOP** ■ .
● If you press **REPEAT** during shuffling, the current track will be played repeatedly.
   → The REPEAT and SHUFFLE flags will be displayed.
2 Press **SHUFFLE** again to resume normal playback.
   → The SHUFFLE flag disappears from the display.

Repeat *(only on remote control)*

It will play the current track repeatedly.

1 Press **REPEAT** during CD playback.
   → "REPEAT TRACK" will be displayed.
   → The REPEAT flag appears on the display.
● The track will be played repeatedly until you press **STOP** ■ .
2 Press **REPEAT** again to resume normal playback.
   → The REPEAT flag disappears from the display.

→ The system will stop searching when all the available radio stations are stored or when the memory for 40 preset radio stations is used.

→ The system will remain tuned to the last stored preset radio station.

● Repeat the above procedure to store other preset stations for the other waveband. Remember to select the next available preset number before proceeding. If not, some of the preset radio stations may be erased.

Notes:

– *You can cancel the automatic programming by pressing PROGRAM or STOP ■ (on the system only).*

– *If you want to reserve a section of preset numbers, for example preset numbers 1 to 9, select preset 10 before starting automatic programming: now only the preset numbers 10 to 40 will be programmed.*

Tuning to radio stations

1 Press **TUNER** to select TUNER mode.

→ "*TUNER*" will be displayed.
A few seconds later, the current frequency or the radio station name if available will be displayed.

2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.

3 Press **TUNING ◄◄** or **►►** for more than one second, then release.

→ The display will show '*SEARCH*' until a station with sufficient signal strength is found.

● Repeat this procedure until the desired station is reached.

● To tune to a weak station, briefly press **TUNING ◄◄** or **►►** until the display shows the desired frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 40 stations in the memory. When a preset radio station is selected, the preset number appears next to the frequency on the display.

Automatic programming

1 Press **TUNER**.

2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.

3 Press **PROGRAM** for more than one second.

→ PROGRAM flag starts flashing and '*AUTO*' will be displayed.

→ Every available radio station for the selected waveband will be stored automatically. The frequency and preset number will be displayed briefly.

Manual programming

1 Press **TUNER**.

2 Press **TUNER** (BAND) to select the desired waveband : FM or MW.

3 Press **PROGRAM** for less than one second.

→ The PROGRAM flag starts flashing.

→ The next available preset number will be displayed for selection.

4 Press **TUNING ◄◄** or **►►** to tune to the desired frequency.

● If you wish to store the radio station to another preset number, press **PRESET ▼** or **▲** to select the desired preset number.

5 Press **PROGRAM** again.

→ PROGRAM flag will stop flashing, and the station will be stored.

TUNER

• Repeat the above procedure to store other preset stations.

Notes:
- *Press STOP ■ (on the system only) to cancel programming.*
- *During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.*

Tuning to Preset Radio Stations

• Press **PRESET** ▼ or ▲ to select the desired preset number .
  → The preset number, frequency and waveband appear on the display

Changing the MW tuning grid
(not available for version /30)

The frequency step can be changed if necessary. In North and South America, the frequency step between adjacent channels in the MW band is 10 kHz. In other parts of the world, it is 9 kHz. The frequency step preset in the factory is 9 KHz.

For MW Band
To change from 9 kHz to 10 kHz or vice versa

Changing of tuning grid will erase all previously stored preset stations.

1 Disconnect the system from the AC power supply *(pull out the AC power cord)*.
2 Press and hold **TUNER** and **TUNING ▶▶** while reconnecting the system to the AC power supply.
   → Display will show "GRID 10" or "GRID 9".

Notes:
- *GRID 9 indicates that the tuning grid is in step of 9 kHz in MW band. GRID 10 indicates that the tuning grid is in step of 10 kHz in MW band.*
- *FM tuning grid will also be changed from 50 kHz to 100 kHz or vice versa. All preset stations will also be erased.*
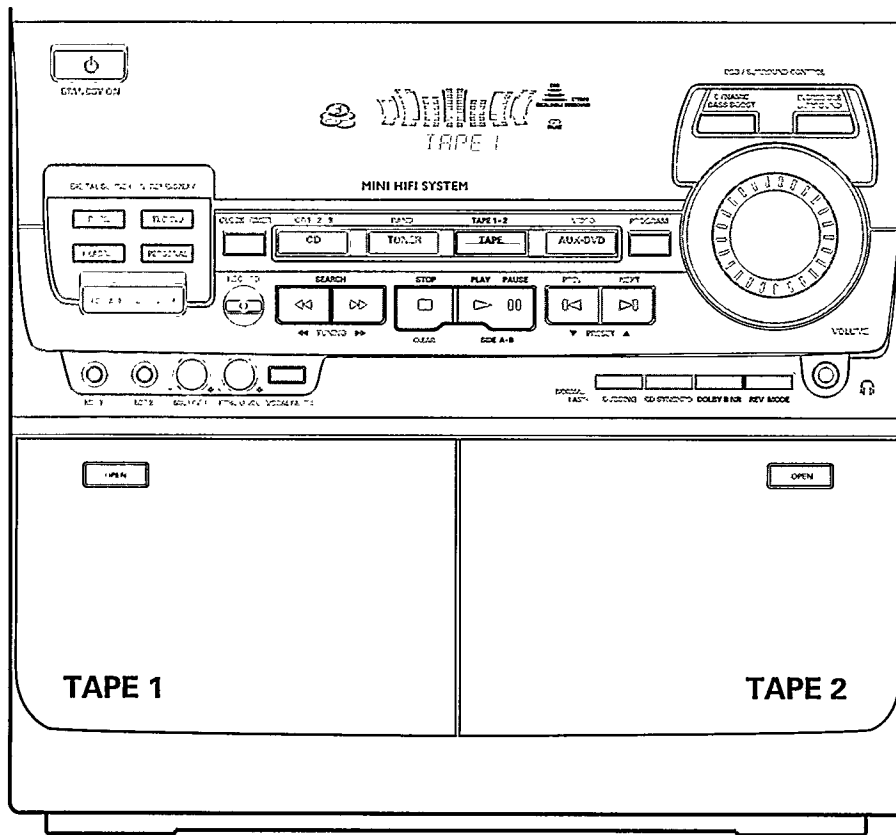
Loading a tape

- Press **OPEN**.
- The tape deck door opens.
- Load the tape with the open side downward and the full spool to the left.
- Close the tape deck door.
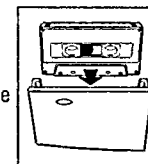
Tape Playback

1 Press **TAPE** to select TAPE mode.
   → "TAPE 1" or "TAPE 2" will be displayed.
- Press **TAPE** again to select either tape deck 1 or tape deck 2.
2 Load the tape into the selected tape deck.
3 Press **PLAY** ▶ to start playback.
3a *(For Tape Deck 2 only)*
   Press **SIDE A•B** to switch playback between sides A and B.
   → The FRONT or BACK flag appears in the display, depending on the side selected.
3b *(For Tape Deck 2 only)*
   Press **REV MODE** to select the different type of play mode *(see auto reverse playback)*.
4 Press **STOP** ■ to end playback.

Notes:
- *To change side before playback begins, use the SIDE button on the remote control.*
- *When the tape has stopped playing, the system will switch to the standby mode automatically after 15 minutes if no button is pressed.*

TAPE 1

TAPE 2

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Auto Reverse Playback *(only on tape deck 2)*

- Press **REV MODE** to select the different play modes.

  ⊃‥‥‥‥‥ recording or playback on one side of the tape. The tape stops at the end of one side.

  ⊃‥‥‥‥ recording or playback on both sides of the tape. The tape then stops.

  ⊂⊃‥‥‥ continuous playback on both sides of the tape up to a maximum of 20 times per side unless you press **STOP ■**.

Rewind/Fast Forward

At the stop mode

1 You can rewind or fast forward the tape by pressing ◀◀ or ▶▶ respectively.

  → "TAPE I XX" or "TAPE 2 XX" will be displayed, depending on which tape deck is selected.

  → The tape will stop automatically at the end of rewinding or fast forwarding.

2 Press **STOP ■** to stop rewind or fast forward.

During playback

- Press and hold ◀◀ or ▶▶ respectively until the desired passage is located.

  → During searching, the sound is reduced to a low volume.

  → When you release ◀◀ or ▶▶, the tape continues playing.

Notes:

- *During rewinding or fast forwarding a tape; it is possible to select another source (e.g. CD, TUNER or AUX•DVD). "XX" denotes the counter number.*
- *Check and tighten slack tape before use with a pencil. Slack tape may get jammed or may burst in the mechanism.*
- *C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.*
- *Store the tapes at room temperature and do not put them too close to a magnetic field (for example, transformer, TV or loudspeaker boxes).*

Dolby B Noise Reduction System

1 Press **DOLBY B NR** to switch on Dolby B NR.

  → The ⊡⊡ B NR appears in the display.

2 Press **DOLBY B NR** again to switch off Dolby B NR.

  → The ⊡⊡ B NR disappears from the display.

Note:

- *A tape recorded with the Dolby B NR system should also be played in the Dolby B NR mode. If you forget to operate the DOLBY NR button, the treble may be reproduced too strongly.*
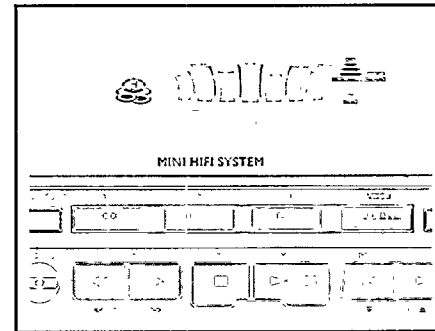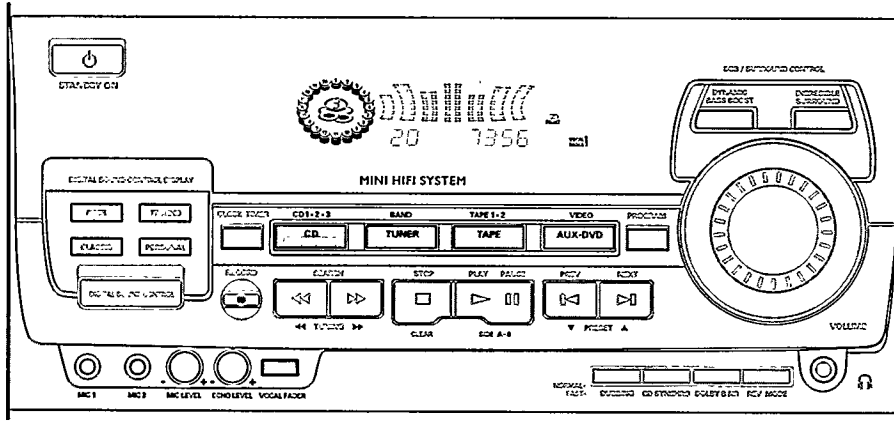

Selecting External Equipment

If you have connected the audio out terminals of the external equipment (TV, VCR, Laser Disc or DVD player) to the AUX IN terminals, you can hear the sound from the system.

- Press **AUX•DVD** to select the external mode.

  → "AUX DVD" will be displayed.

Note:

- *All the sound control features (e.g. DSC, DBB, etc) are available for selection.*

Karaoke   *(not available for version /30)*

Microphone mixing

1 Set the **MIC LEVEL** control to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.
2 Connect either 1 or 2 microphones to the **MIC 1** or **MIC 2** socket.
3 Press **CD, TUNER, TAPE 1** or **AUX•DVD**.
4 Play the selected source.
5 Adjust the volume level with **VOLUME** control.
6 Adjust the **MIC LEVEL** control to the mixing level that you want.
7 Adjust the **ECHO LEVEL** control to the echo level that you want.

8 Press **VOCAL FADER** to suppress the vocals on special recorded Karaoke CDs.
   → When the VOCAL FADER is switched on, the VOCAL FADER flag and " 🎤 " will be displayed.
9 Start singing or talking through the microphone.

Note:
– *For maximum VOCAL FADER effect, you are advised to switch off the Incredible Surround.*

RECODING

MINI HIFI SYSTEM
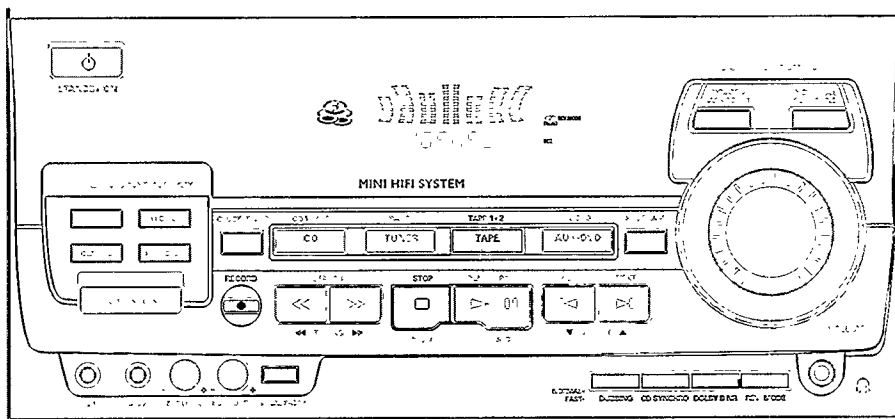
Notes:
- If you do not intend to record via the microphone, unplug the microphone to avoid accidental mixing with other recording source.
- For recording, use only tape of IEC type I (normal tape) or IEC type II (Chrome).
- The tape is secured at both ends with leader tape. At the beginning and end of tape, nothing will be recorded for six to seven seconds.
- The recording level is set automatically, regardless of the position of VOLUME, DBB or Incredible Surround . Dolby B NR can be selected for Tuner or CD recording.
- To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.
- If "CHECK TAPE" is displayed, the protection tab has been broken. Put a piece of clear adhesive tape over the opening. Do not cover the CrO_2 tape detection hole when covering the tab opening.

Recording the mixed sound / One Touch Recording

- During microphone mixing, you can record the mixed sound on a tape in tape deck 2 except dubbing mode.
- For One Touch Recording, as soon as you press RECORD, the current source (CD, TUNER, TAPE 1 or AUX•DVD) will be recorded on tape deck 2

1 Load a blank tape in tape deck 2.
2 Press RECORD ● .
   → The REC flag is displayed.
3 Press STOP ■ to stop recording.

Note:
- When you press RECORD at TAPE 2 mode, "SELECT SOURCE" will be displayed. One Touch Recording is not possible at TAPE 2 mode.

Recording from other sources (only on tape deck 2)

1 Press TAPE to select tape deck 2
2 Load a blank tape into tape deck 2 with the open side downward.
3 Press SIDE on the remote control to select the recording side.
   → The FRONT or BACK flag will be displayed, depending on the side selected.
4 Press REV MODE to select the playback mode ⊏ or ⊃).
5 Press DOLBY NR to record with Dolby NR (except TAPE 1 mode).
6 Press CD, TUNER, TAPE 1 or AUX•DVD
● Start playback of the selected source.
7 Press RECORD ● to start recording.
   → The REC flag is displayed.
8 Press STOP ■ to stop recording.

Notes:
- Only ⊏ or ⊃ mode is available during recording.
- During recording, it is not possible to listen to another sound source.

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Dubbing tapes (from tape deck 1 to tape deck 2)

1 Press **TAPE** to select tape deck 2 .
2 Load the prerecorded tape into tape deck 1 and a blank tape into tape deck 2.
3 Press **SIDE** on the remote control to change the desired direction of the play mode.
   → The FRONT or BACK flag will be displayed, depending on the side selected.
4 Press **REV MODE** to select the play mode ($\rightleftharpoons$) for tape deck 2.
5 Press **DUBBING** *once* for normal speed dubbing or *twice* for high speed dubbing.
   → Both the tapes in deck 1 and 2 will start rewinding to the front automatically.
   → Dubbing will start immediately after both tapes have finished rewinding.
   → "NORMAL ....." (normal speed) or "FAST ....." (high speed) will be displayed.
   → HSD appears on the display for high speed dubbing.
   → The REC flag is displayed.
6 Press **STOP** ■ to stop dubbing.

Notes:
– "....." denotes the counter number.
– Only $\rightleftharpoons$ mode is available during dubbing.
– At the end of side A, flip the tapes to side B and repeat the procedure.
– Dubbing of tapes is only possible from tape deck 1 to tape deck 2.
– To ensure good dubbing, use tapes of the same length.
– During high speed dubbing in Tape mode, the sound is reduced to a low volume.
– You can switch to other sound source while dubbing.

– Dolby NR button has no influence during dubbing (dubbing from tape deck 1 to tape deck 2). An original tape recorded with Dolby B NR automatically produces a copy with Dolby B NR.

CD Synchro Start Recording

During CD synchro start recording,
• It is not advisable to fast forward/rewind your tape in tape deck 1.
• It is not possible to listen to another source.

1 Press **CD**.
2 Load a disc into the disc tray.
3 You can program the tracks in the order you want them to be recorded (see Programming Tracks). If not, the tracks are recorded according to the selected disc.
4 Press **TAPE** to select tape deck 2.
5 Load a blank tape (full spool to the left) into tape deck 2.
6 Press **SIDE** on the remote control to change the desired direction of the play mode.
   → The FRONT or BACK flag will be displayed, depending on the side selected.
7 Press **REV MODE** to select the play mode ($\rightleftharpoons$ or $\supset$) for tape deck 2.
8 Press **DOLBY NR** to to record with Dolby NR.
9 Press **CD SYNCHRO** to start recording.
   → The REC flag is displayed.
   → After about seven seconds, the CD will start playing. This is to prevent recording on the leader tape at the beginning of the tape.
10 Press **STOP** ■ to stop recording CD playback.
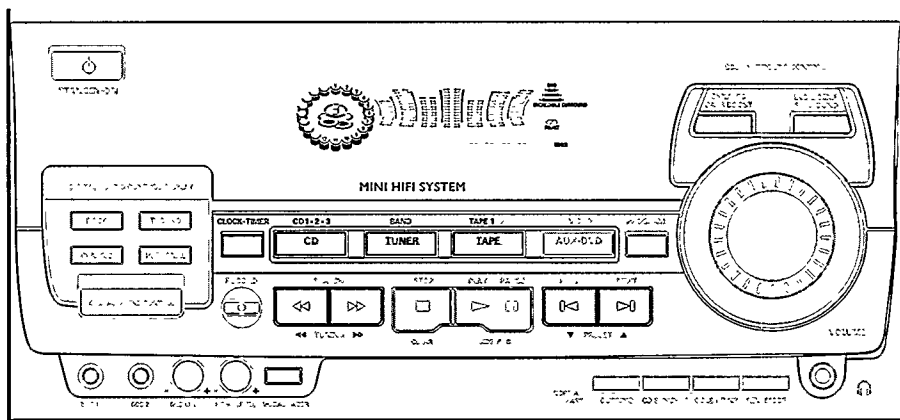
View Clock

You can view the clock (if it is set) at standby or any source. It will be displayed for about seven seconds.

- Press CLOCK•TIMER briefly.
  - → " *10:25*" (the current time) will be displayed.
  - → "- - : - -" will be displayed if the clock is not set.

Clock Setting

The clock is set in 24-hour mode, e.g. "*00:00*" or "*23:59*". Before setting the clock, you must be in the View Clock mode.

1 Press CLOCK•TIMER to select clock mode.
  → "*00:00*" or the current time starts flashing.
2 Set the hour with ◄◄ or ►►.
3 Set the minute with I◄ or ►I.
4 Press CLOCK•TIMER again to store the setting.
  → The clock starts running.

- To exit without storing the setting, press STOP ■.

Notes:
- During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.
- When a power interruption occurs, the clock setting is erased.

Timer Setting

- The system can switch on to CD, TUNER or TAPE 1 mode automatically at a preset time. It can serve as an alarm to wake you up. After half an hour from the preset time, the system will return to the standby mode if no button is pressed.
- Before setting the timer, make sure the clock is set correctly.
- The timer has to be reset or start again for each subsequent preset time.
- **The volume of the timer will be at the last setting before the set is switched to standby mode.**

1 Press and hold CLOCK•TIMER for more than 2 seconds to select timer mode.
  → "*OH 00:00*" or the last set timer starts flashing.
  → The TIMER flag will be flashing.
  → The last selected timer source will be lighted in green while the other available sources are flashing.
2 Press CD, TUNER or TAPE 1 to select the desired source.
  → The selected timer source will be lighted in green.
3 Press ◄◄ or ►► to set the hour for the timer to start.
4 Press I◄ or ►I to set the minute for the timer to start.
5 Press CLOCK•TIMER to store the start time and the selected source.
  → The TIMER is now set.
  → The TIMER flag remains on the display.

- To exit without storing the setting, press STOP ■.

- At the preset time, the TIMER will be activated.
  - → The selected source will be played.
  - → The TIMER flag disappears from the display.

To stop the TIMER
- Press **TIMER ON/OFF** on the remote control.
  - → The TIMER is now switched off.
  - → The TIMER flag disappears.

To start the TIMER again *(for the same time)*
- Press **TIMER ON/OFF** on the remote control.
  - → The TIMER flag is displayed.

Notes:
- *During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.*
- *If the source selected is TUNER, the last tuned frequency will be switched on.*
- *If the source selected is CD, playback will begin with the first track of the last selected disc. If the CD trays are empty, the TUNER will be selected instead.*
- *If the source selected is TAPE 1, and if the preset time is reached during high speed dubbing, the TUNER source will be selected instead.*

Maintenance

Cleaning the Cabinet
- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Cleaning the CD lens
After prolonged usage, dirt or dust may accumulate at the CD lens. To ensure good playback quality, clean the CD lens with Philips CD Lens Cleaner or any commercially available. Follow the instructions supplied with the Lens Cleaner.

Cleaning the Heads and the Tape Paths
- To ensure good recording and playback quality, clean the heads, the capstan(s), and pressure roller(s) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape through once.

Demagnetizing the heads
- Use a demagnetizing tape available at your dealer.

SPECIFICATIONS

Specifications

AMPLIFIER
Output power (for FW850C only)
PMPO .... 2800 W
RMS [1] .... 2 x 130 W, 6 Ω, 1kHz, THD 10%
Output power (for FW855C only)
PMPO .... 3000 W
RMS [1]
    Left/Right Channel .. 2 x 120W,6Ω,1kHz,THD10%
    Surround Channel .... 20 W, 12 Ω
[1] ±1dB

Signal-to-noise ratio .... ≥ 75 dBA (IEC)
Frequency response .... 40 – 20,000Hz, ±3dB
Input sensitivity
  Aux In 350mV
  Microphone .... 2.5 mV
Output
  Speakers (Left/Right) .... ≥ 6 Ω
  Surround Speakers (for FW855C only) .... ≥ 12 Ω
  Headphones .... 32 Ω – 1000 Ω
  Subwoofer Out .... > 20000 Ω
  Line Out .... > 20000 Ω
  Digital Optical Out .... IEC 958, TOSLINK, 44.1 kHz

CD PLAYER
Number of programmable tracks 40
Frequency range .... 20 – 20,000 Hz
Signal-to-noise ratio .... > 76 dB
Channel separation .... 79 dB (1 kHz)
Total harmonic distortion .... 0.02% (1 kHz)

TUNER
FM wave range .... 87.5 – 108 MHz
MW wave range (9 kHz) .... 531 – 1602 kHz
MW wave range (10 kHz) .... 530 – 1700 kHz
Tuning grid 9/10kHz
Number of presets 40
Antenna
  FM .... 75Ω wire
  AM .... Loop Antenna

TAPE DECKS
Frequency response
  CrO_2 tape (type II) .... 60 – 15,000Hz (5 dB)
  Normal tape (type I) .... 60 – 15,000Hz (5 dB)
Signal-to-noise ratio (without Dolby NR)
  CrO_2 tape (type II) .... 50 dB
  Normal tape (type I) .... 47 dB
Signal-to-noise ratio (with Dolby NR)
  CrO_2 tape (type II) .... 62 dB
  Normal tape (type I) .... 58 dB
Wow and flutter .... ≤ 0.35% DIN

SPEAKERS (Front Left/Right)
System ... shielded; 3-way; 2 bass ports + 1 G-bass port
Impedance 6Ω
Woofer .... 1 x 6.5" G-Cone
Tweeter .... 1 x 2.5" Gradually cooled ferro-fluid
Tweeter .... 1 x 1" Polydome
Dimensions (w x h x d) .... 260 x 325 x 310 mm
Weight .... 4.89 kg each

SURROUND SPEAKERS *(for FW855C only)*
System .... closed satellite
Impedance .... 12 Ω
Speaker Driver .... 1 x 3" full range
Dimensions (w x h x d) .... 210x 98 x 210 mm
Weight .... 0 85 kg each

GENERAL INFORMATION
Material/Finish .... Polystyrene/Metal
AC Power 110-127/220-240V;50/60Hz;Switchable
Power Consumption
  Active 145W
  Standby .... < 18W
Dimensions (w x h x d) .... 265 x 310 x 365 mm
Weight (without speakers) .... 10.5 kg

Warning! Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty.

- If a fault occurs, check the points listed below before taking the system for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

CD Player Operation

"NO DISC" is displayed.
- The disc is inserted upside down.
- → *Place CD with printed side up.*
- Moisture condensation at the lens.
- → *Wait until lens has adjusted to normal room temperature.*
- There is no disc in the CD tray.
- → *Insert a CD.*
- The CD is dirty, badly scratched or warped.
- → *Clean or replace the CD.*
- The CD lens is dirty or dusty.
- → *See section under Maintenance.*

Radio Reception

Poor radio reception
- The signal strength is too weak.
- → *Adjust the antenna.*
- The TV or VCR is too close to the stereo system.
- → *Separate the stereo system from the TV or VCR.*
- → *Connect an external antenna for better reception.*

Tape Deck Operation

"RECORDING ACTIVE" is displayed.
- A recording is in progress.
- → *Stop the recording or wait until it is finished.*

"TAPE DUBBING ONLY" is displayed.
- Tape dubbing is only possible in tape mode.
- → *Switch source to tape mode.*

Recording or playback cannot be made or there is a decrease in audio level.
- *Dirty tape heads, capstans or pressure rollers.*
- → *See section on tape deck maintenance.*
- Magnetic build-up in the record/playback head.
- → *Use demagnetizing tape.*

General

System switches to standby mode automatically
- The system is operating in an extremely hot environment or internal heat build-up is high.
- → *This is not a malfunction. The system incorporates a built-in safety feature that prevents overheating.*
- → *Let the system cools down, then switch on again.*

System does not react when any button is pressed.
- Electrostatic discharge.
- → *Press STANDBY-ON to switch the unit off; Remove the AC power plug from the wall outlet, then reconnect and switch on the system again.*

No or poor sound.
- Volume is not turned up.
- → *Adjust VOLUME.*
- The headphones are connected.
- → *Disconnect the headphones.*
- Speakers are not connected or are connected wrongly.
- → *Check that the speakers are connected correctly.*
- → *Make sure that the stripped speaker wire is clamped.*

Reversed left and right sound.
- Speakers are incorrectly connected.
- → *Check the speaker connections and location.*

Lack of bass sound or apparently imprecise physical location of musical instruments.
- Speakers are incorrectly connected.
- → *Check the speaker connection for proper phasing, red/black wires to red/black terminals.*

Remote control has no effect on the system.
- The distance to the system is too large.
- → *Reduce the distance.*
- Batteries are inserted incorrectly.
- → *Insert the batteries with their polarities (+/– signs) as indicated..*
- Batteries are exhausted.
- → *Replace the batteries.*
- Wrong source is selected.
- → *Select the source (CD, TUNER, etc.) before pressing the function button, (PLAY, PREV/NEXT, etc.).*

Timer not working.
- Timer is not switched on.
- → *Press TIMER ON/OFF on remote control to switch on the timer.*
- Dubbing/recording is in progress.
- → *Stop dubbing/recording.*

System display features automatically and buttons flashing continuously.
- Demonstration mode is switched on.
- → *Press and hold STOP ■ for 3 seconds to switch off the demo.*

"UNPLUG HEADPHONE" is displayed.
- Headphones is connected.
- → *Disconnect the headphones.*

English

Warranty conditions valid for Colour Television, Video Cassette Recorders, Audio Systems, and Portable Audio.

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies which the purchaser has in respect of the product under the Trade Practices Act or other Commonwealth or State Law. Philips Sound and Vision warrants it's products to the purchaser as follows and subject to the stated conditions.

12 months free service

Any defect in materials or workmanship in the product occurring within 12 months from the original date of purchase will be rectified free of charge by Philips Service or one of our authorised service centers.

Conditions of warranty

1. All claims for warranty service should be made to your nearest Philips Service Branch or to a Philips authorised service dealer. Reasonable evidence of date of purchase must be provided.
2. This warranty extends only to defects occurring under normal use of the product when operated in accordance with the instructions.
3. Home service within the normal service area of Philips Service or one of our authorised service centres will be provided for television receivers with screen size 59cm and above. All other products are to be brought or sent to your nearest Philips Service Branch or to an authorised service centre.
4. This warranty does not cover:
   a) Mileage or traveling time, pickup or delivery, cost of insurance.
   b) Service costs arising from failure to correctly adjust the controls of the product or to observe the instructions, or inspections that reveal that the product is in normal working order.
   c) Product failures caused by misuse, neglect, normal wear and tear, accidental breakage, transit damage, inexpert repairs or modification by unauthorised persons, lightning strikes, vermin intestation or liquid spillage.
   d) Cleaning of video or audio heads.
   e) Inadequate receiving antennae.
   f) Replacement of worn or used batteries, styli or other consumables.

The conditions contained in this warranty replace and override the provisions of the World-Wide Guarantee for Products sold in Australia.

Philips Service Branches

To contact your nearest Philips Service Branch call **13-13-92** from anywhere in Australia.

Sydney
Technology Park, Australia Centre
3 Figtree Drive, Homebush NSW 2140

Newcastle &-Central Coast
984 Hunter Street, Newcastle West NSW 2302

Perth
1 Fredrick Street, Belmont WA 6104

Melbourne
Cnr Wellington &, Springvale Roads, Mulgrave VIC 3170

Brisbane
10 Graystone Street, Tingalpa QLD 4173

Also Service Centres:
Adelaide
348 Torrens Road, Croydon Park SA 5008

Hobart
2A Pierce Street, Moonah TAS 7009

Wollongong
1/216 Corrimal Street, Wollongong NSW 2500

Canberra
Unit F, , 66–70 Maryborough Street, Fyshwick ACT 2609

Service is also provided through 1,200 accredited service dealers throughout Australia. To find out about your nearest centre, call **13 13 92**.

Call us direct on the
Philips Customer Helpline

Philips customer care lasts as long as you keep the product. Whenever you need any information on the care or operation of your product, remember it's always best to go straight to the source. Phone Philips Helpline direct on

13 13 91
7 days a week

– your call is always welcome.
Please record the following information for your records and keep in a safe place.

Model No:..

Serial No:..

Please retain your purchase receipt which is required to claim service under warranty.

Philips Electronics Australia Limited
ACN 008 445 743, 3 Figtree Drive
Homebush NSW 2140

Version 2, 09/97, FFCP-030

Guarantee and Service for New Zealand

Thank-you for purchasing this quality Philips product. Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

Conditions

1. The product must have been purchased in New Zealand. As proof of purchase, retain the original sales docket indicating the date of purchase.
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

How to claim

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.
However, should the retailer not be able to conclude the matter satisfactorily, or if you have other diffi-culties claiming under this guarantee, please contact

The Guarantee Controller
Philips New Zealand Ltd.
✉ P.O. Box 41.021
Auckland
☎ (09) 84 94 160
fax ☎ (09) 84 97 858

Garantía para México

Este aparato está fabricado con materiales de alta calidad y ha sido cuidadosamente verificado. Philips, por lo tanto, da a usted una garantía de 12 meses a partir de su fecha de compra.
La garantiá ampara la reposición de las piezas defectuosas debidas a fallas en su montaje o en los materiales, incluyendo la mano de obra necesaria para su reemplazo en nuestras Sucursales o talleres autorizados.
En caso de fallas en su aparato le rogamos se sirva poner en contacto con su distribuidor.
Esta garantía no cubrirá las averías que resulten como consecuencia de una instalación incorrecta del aparato, manifiesto maltrato o uso inadecuado del mismo.
Philips se obliga a reparar y devolver a usted su aparato en un plazo no mayor de 30 días hábiles contados a partir de la fecha de haber ingresado su aparato a uno de nuestros talleres.
Para que esta garantía sea válida, es necesario que el certificado que figura en la parte posterior de esté instructivo haya sido debidamente llenado en el momento de la compra del aparato.
En caso de extravío del certificado con la presentacíon de la factura o remisión de su aparato podrá hacer efectiva la garantía correspondiente.
Si usted tiene alguna duda o pregunta que no le pueda solucionar su distribuidor, por favor ponerse en contacto con:
Centro de Servicio Philips
Blvd. de los Ferrocarriles No.339
Col. Industrial Vallejo, 02300
México, D.F.
☎ 728-42 00
Centro de Información al Consumidor
☎ 368-77 88 ó 91 (800) 504-62 00

English
Français
Español
中文

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FW 850C
FW 855C